

b.) Amendments to the Claims**Status Identifiers of the Claims**

1. (Original)
2. (Original)
3. (Original)
4. (Original)
5. (Original)
6. (Original)
7. (Original)
8. (Withdrawn)
9. (Withdrawn)
10. (Original)
11. (Withdrawn)
12. (Withdrawn)
13. (Original)
14. (Original)

Listing of Claims

1. (Original): A de novo synthesized plasmid comprising at least a replication origin and a selection marker gene wherein:
 - (a) the replication origin contains sequences relevant to autonomous plasmid replication in a host cell; and
 - (b) the selection marker gene contains sequences relevant to the selection of a plasmid in a host cell.
2. (Original): The plasmid according to claim 1, wherein the plasmid is not modified from the plasmid previously obtained from natural sources.

3. (Original): The plasmid according to claim 1, wherein the plasmid is not modified from the plasmid previously obtained from recombinant sources.
4. (Original): The plasmid according to claim 1, wherein the replication origin allows the autonomous plasmid replication in a host cell.
5. (Original): The plasmid according to claim 1, wherein the selection marker gene encodes a product indicative of plasmid maintenance in a host cell.
6. (Original): A method of preparing a de novo synthesized plasmid combined from at least two DNA fragments comprising:
 - (a) preparing a linear replication origin DNA fragment;
 - (b) preparing a linear selection marker gene DNA fragment;
 - (c) combining the DNA fragments prepared from steps (a) and (b) to form a circular de novo synthesized plasmid;
 - (d) introducing the plasmid made from step (c) into a host cell; and
 - (e) selecting the plasmid with appropriate replication origin and selection marker from transformed host cells.
7. (Original): The method according to claim 6, wherein any DNA fragment alone used for combining the de novo synthesized plasmid cannot confer both autonomous DNA replication and selection to a plasmid.
8. (Withdrawn)
9. (Withdrawn)

10. (Original): A method of using a de novo synthesized plasmid comprising:

- (a) linearizing the de novo synthesized plasmid;
- (b) inserting one or more functional DNA fragments to the linearized plasmid to make other plasmids;
- (c) introducing the plasmids made from step (b) into host cells;
- (d) selecting the plasmids and host cells with desired properties; and
- (e) using the plasmids and host cells for biomedical applications.

11. (Withdrawn)

12. (Withdrawn)

13. (Original): The method according to claim 10, wherein the functional DNA fragments encode a promoter, a regulatory sequence, a ribosome binding site, restriction sites, a terminator, a polypeptide, a replication origin, and a selection marker gene.

14. (Original): The method according to claim 10, wherein the desired properties are plasmid replication, selection, and the properties added by functional DNA fragments inserted from step (b).

15. (Original): The method according to claim 10, wherein the biomedical applications are DNA cloning, DNA amplification, gene expression, gene therapy, and DNA immunization.